

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-3. (Canceled)

4. (Currently Amended) ~~The actuator as claimed in claim 2, wherein~~ An actuator for connection to a harness including a signal line covered by a coating, the actuator comprising:
a connector body including an input terminal and an output terminal;
a cover attached to the connector body to hold the harness with the connector body;
at least one of the connector body and the cover including a cutting portion arranged between the input terminal and the output terminal to cut the signal line of the harness into two cut pieces when attaching the connector body and the cover to each other;
the input terminal and the output terminal each including two contact portions that penetrate through the coating of the signal line of the harness to contact one of the two cut pieces of the signal line when attaching the connector body and the cover to each other;
the cutting portion including an insulator for preventing the two cut pieces of the signal line from being electrically connected with each other; and
the insulator ~~includes~~ including a distal end and a tapered portion that narrows toward the distal end.

5. (Currently Amended) ~~The actuator as claimed in claim 2, wherein~~ An actuator for connection to a harness including a signal line covered by a coating, the actuator comprising:
a connector body including an input terminal and an output terminal;
a cover attached to the connector body to hold the harness with the connector body;
at least one of the connector body and the cover including a cutting portion arranged between the input terminal and the output terminal to cut the signal line of the harness into two cut pieces when attaching the connector body and the cover to each other;

the input terminal and the output terminal each including two contact portions that penetrate through the coating of the signal line of the harness to contact one of the two cut pieces of the signal line when attaching the connector body and the cover to each other;

the cutting portion including an insulator for preventing the two cut pieces of the signal line from being electrically connected with each other; and

the cutting portion is a metal cutter insert molded in the connector body along with the input terminal and the output terminal.

6. (Currently Amended) The actuator as claimed in claim 5, wherein the cutter has a surface coated by a coating layer formed from an insulative material.

7. (Currently Amended) ~~The actuator as claimed claim 1, wherein~~ An actuator for connection to a harness including a signal line covered by a coating, the actuator comprising:

a connector body including an input terminal and an output terminal;

a cover attached to the connector body to hold the harness with the connector body;

at least one of the connector body and the cover including a cutting portion arranged between the input terminal and the output terminal to cut the signal line of the harness into two cut pieces when attaching the connector body and the cover to each other;

the input terminal and the output terminal each including two contact portions that penetrate through the coating of the signal line of the harness to contact one of the two cut pieces of the signal line when attaching the connector body and the cover to each other;

the cutting portion including an insulator for preventing the two cut pieces of the signal line from being electrically connected with each other;

the connector body ~~includes~~ including two power supply terminals;

the harness ~~includes~~ including two power supply lines, each extending parallel to the signal line and being covered by a coating; and

the two power supply terminals each ~~have~~having a contact portion that penetrates through the coating of an associated one of the power supply lines to contact the associated power supply line when attaching the connector body and the cover to each other.

8. (Canceled)

9. (Currently Amended) The actuator as claimed in claim [[1]]5, wherein the cutting portion includes a blade having a W-shaped upper end.

10. (Currently Amended) ~~The actuator as claimed in claim 1, further comprising:~~An actuator for connection to a harness including a signal line covered by a coating, the actuator comprising:

a connector body including an input terminal and an output terminal;

a cover attached to the connector body to hold the harness with the connector body;

a switch connected between the input terminal and the output terminal; and

a control circuit connected to the switch, in which the control circuit is operable for setting an address value for itself, ~~wherein~~

at least one of the connector body and the cover including a cutting portion arranged between the input terminal and the output terminal to cut the signal line of the harness into two cut pieces when attaching the connector body and the cover to each other;

the input terminal and the output terminal each including two contact portions that penetrate through the coating of the signal line of the harness to contact one of the two cut pieces of the signal line when attaching the connector body and the cover to each other; and

the control circuit sets an initial value, opens the switch to disconnect the input terminal and the output terminal from each other, changes the initial value to a predetermined value that is used as the address value, and closes the switch to connect the input terminal and the output terminal to each other.

11. (Canceled)

12. (Currently Amended) ~~The actuator as claimed claim 11, wherein~~ An actuator for connection to a harness including a signal line covered by a coating, the actuator comprising:

a connector used to connect the actuator to the harness, the connector including:

a connector body including a first groove, which is shaped in correspondence with the harness, and an input terminal and an output terminal, which are arranged in the first groove;

a cover for folding the harness with the connector body, the cover including a second groove corresponding to the first groove;

a cutting portion arranged between the input terminal and the output terminal in at least one of the first groove of the connector body and the second groove of the cover, the cutting portion cutting the signal line of the harness into two cut pieces when attaching the connector body and the cover to each other, the input terminal and the output terminal each including:

two contact portions that penetrate through the coating of the signal line of the harness to contact one of the two cut pieces of the signal line when attaching the connector body and the cover to each other, wherein the cutting portion includes an insulator having a distal end and a tapered portion that narrows toward the distal end, and a blade having a W-shaped upper end.

13. (Currently Amended) ~~The actuator as claimed in claim 11,~~ An actuator for connection to a harness including a signal line covered by a coating, the actuator comprising:

a connector used to connect the actuator to the harness, the connector including:

a connector body including a first groove, which is shaped in correspondence with the harness, and an input terminal and an output terminal, which are arranged in the first groove;

a cover for folding the harness with the connector body, the cover including a second groove corresponding to the first groove;

a cutting portion arranged between the input terminal and the output terminal in at least one of the first groove of the connector body and the second groove of the cover, the cutting

portion cutting the signal line of the harness into two cut pieces when attaching the connector body and the cover to each other, the input terminal and the output terminal each including:

two contact portions that penetrate through the coating of the signal line of the harness to contact one of the two cut pieces of the signal line when attaching the connector body and the cover to each other, wherein

the connector body includes a third groove and a fourth groove shaped in correspondence with the harness, a first power supply terminal arranged in the third groove, and a second power supply terminal arranged in the fourth groove;

the cover includes a fifth groove corresponding to the third groove and a sixth groove corresponding to the fourth groove;

the harness includes a first power supply line, associated with the third and the fifth grooves and covered by a coating, and a second power supply line, associated with the fourth and sixth grooves and covered by a coating;

the first power supply terminal includes a first contact portion that penetrates through the coating of the first power supply line to contact the first power supply line when attaching the connector body and the cover to each other; and

the second power supply terminal includes a second contact portion that penetrates through the coating of the second power supply line to contact the second power supply line when attaching the connector body and the cover to each other.

14-16. (Canceled)

17. (Currently Amended) ~~The connector as claimed in claim 16,~~ A connector for connecting a plurality of devices by way of a harness including a signal line covered by a coating, the connector comprising:

a connector body including an input terminal and an output terminal;

a cover for folding the harness with the connector body,

at least one of the connector body and the cover including a cutting portion arranged between the input terminal and the output terminal to cut the signal line of the harness into two cut pieces when attaching the connector body and the cover to each other, and

the input terminal and the output terminal each including two contact portions that penetrate through the coating of the signal line of the harness to contact one of the two cut pieces of the signal line when attaching the connector body and the cover to each other, wherein the cutting portion includes an insulator for preventing the two cut pieces of the signal line from wherein the cutting portion is a metal cutter insert molded in the connector body along with the input terminal and the output terminal.

18. (New) The actuator as claimed in claim 4, wherein the insulator is integrally formed with at least one of the connector body and the cover.